

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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	In Re Application of	)	HIND ADOLLO A CODDIC WITH							
	Mantravadi et al	) For: )	HIERARCHICAL CODING WITH MULTIPLE ANTENNAS IN A WIRELESS COMMUNICATION							
	Serial No. 10/791,314	) Examiner:	SYSTEM							
	Filed: March 1, 2004	) Group No.	2661							
	INFORMATIO	N DISCLOSUI	RE STATEMENT							
	Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450									
	Dear Sir:									
	Applicants submit herewith, in accorder information listed on the enclosed Fo		7 CFR § 1.98, the patents, publications and							
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		we								
	CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8(a))									
	I hereby certify that this correspondence is, on the	date shown below,								
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	✓ deposited with the United States Postal Service     with sufficient postage as first class mail, in ar     envelope addressed to the Commissioner for     Patents, P.O. Box 1450, Alexandria, VA 22313-	n Tra r	smitted by facsimile to the Patent and demark Office.							
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	Date: March 29, 2005									
	Danasitar'a Nama Suganna Vargas	Deposito	or's Name							
	Depositor's Name Susanna Vargas (type or print name)		(type or print name)							
	Signature:	Signatu	re:							
	Signature.									

believe may be material to the examination of this application and, with respect to which there may be a duty to disclose in accordance with 37 CFR § 1.56. While the references identified may be material to the examination of this application pursuant to 37 CFR § 1.56, the citation of these references is not intended to constitute an admission that any reference referred to herein is prior art to the invention of this application unless specifically designated as such. Additionally, the filing of this Information Disclosure Statement shall not be construed to mean that any search has been made or, that if made, such search was complete or exhaustive, or that no other material information as defined in 37 CFR § 1.56 exists.

This Information Disclosure Statement is being submitted in accordance with 37 CFR § 1.97(c). A list of the references is set forth on Form PTO-1449, which is enclosed herewith, along with a copy of each cited reference (copies of U.S. references are not enclosed). Applicants respectfully request that the Examiner return to Applicants a copy of the Form PTO-1449 indicating consideration of the references cited thereon.

Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated in the amount of \$180.00 for the fee set forth in 37 CFR § 1.17(p). The Commissioner is hereby further authorized to charge payment of any additional fees that may be required, or credit any overpayment, to Deposit Account No. 17-0026. A duplicate of this sheet is enclosed.

Respectfully submitted,

Dated: March 39, 2005

By:

Sandin (Micky) S. Minhas, Reg. No. 44,945

Phone No.

QUALCOMM Incorporated Attn: Patent Department 5775 Morehouse Drive

San Diego, California 92121-1714

Telephone:

(858) 658-5787

Facsimile:

(858) 658-2502

FORM PTO-14	449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO.			SERIAL NO.					
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IMFORMATION DISCLOSURE AR 3 1 2005 SEATEMENT BY APPLICANT					APPLICANT							
(Use several sheets if necessary)					Mantravadi et al							
(Use several sheets if necessary)  ATEMAILED: March 29, 2005					FILING DATE GROUP							
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EXAMINER INITIAL	Ref No	DOCUMENT NUMBER	· DATE	cou	NTRY	NAM	IE	CLA		SUB CLASS		
	C1	WO 02/089371 A1	11/7/02	PCT	T Hughes		Electronics Corp.					
	C2	WO 01/39456 A1	5/31/01	PCT Thoms		Thomson Lice	nson Licensing					
		OTHER PRIOR A	RT (Includin	g Author,	Title, Da	te, Pertinent Pa	ge, Etc.)	•	··············			
D1 Kannan Ramchandran et al, "MULTIRESOLUTION BROADCAST FOR DIGITAL HDTV									V			
		USING JOINT SOURCE/ CHANNEL CODING", 1/1/93, PAGES 6-22										
	D2	E.G. Larsson et al, "S	E.G. Larsson et al, "Space-Time Block Coding for Wireless Communications", 5/03, whole									
		document	document									
	D3	Thomas M. Cover, "	Thomas M. Cover, "Broadcast Channels" 01/72, page 2									
	D4	Heath et al, "Multius	Heath et al, "Multiuser diversity for MIMO wireless systems with linear receivers", 11/4/01, page									
	D5		Amroui et al, "Coding for the MIMO broadcast channel", 6/29/03, page 296									
D6 Ten Brink et al, "Detection thresholds of iterative MIMO processing", 6/30/02  D7 Witzke et al, "Iterative detection of MIMO signals with linear detectors", 11/0												
	D8		Yisheng et al, "Cooperated TDMA unlink based on hierarchically modulated alamouti code",									
		2/18/04. page 201		T= :	0.10	~~~				<del></del>		
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		if reference considered, whether considered. Include copy of this					ne through	citation if	not in			